

HT-03-006



December 10, 2003

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Subject: | Serial No. 10/661,038 09/12/03 |

Cheng T. Horng et al.

PROCESS AND STRUCTURE TO FABRICATE
SPIN VALVE HEADS FOR ULTRA-HIGH
RECORDING DENSITY APPLICATION

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.

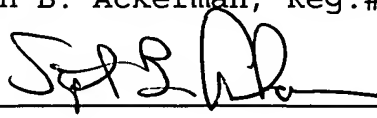
The following Patents and/or Publications are submitted to
comply with the duty of disclosure under CFR 1.97-1.99 and
37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being
deposited with the United States Postal Service as first class
mail in an envelope addressed to: Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450, on December 19, 2003.

Stephen B. Ackerman, Reg.# 37761

Signature/Date


 12/19/03

U.S. Patent 6,141,191 to Lee et al., "Spin Valves with Enhanced GMR and Thermal Stability," discloses a spin valve sensor with enhanced GMR effect and improved thermal stability.

U.S. Patent 6,567,246 to Sakakima et al., "Magnetoresistance Effect Element and Method for Producing the Same, and Magnetoresistance Effect Type Head, Magnetic Recording Apparatus, and Magnetoresistance Effect Memory Element," discloses a magnetoresistive effect element which produces a high level of output to an outside magnetic field in response to a change in a magnetoresistance.

U.S. Patent 6,414,825 to Inoue et al., "Thin Film Device, Thin Film Magnetic Head and Magnetoresistive Element," teaches a method for improving the thermal conductivity and hardness of shield gap films by sputtering BN, SiN and CN layers in the presence of oxygen and Ar.

U.S. Patent 6,221,508 to Kanbe et al., "Magnetic Recording Media," teaches the use of Ar sputtering with the admixture of small percentages of other gases (including oxygen at approx. 10%) in forming recording media with reduced grain size for low-noise magnetic recording.

Sincerely,

Stephen B. Ackerman,
Reg. No. 37761



Form PTO-1449	Document Number (Sequence) HT-03-006	Application Number 10/661,038
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <small>(Use several sheets if necessary)</small>		Applicant Cheng T. Horng et al.
		Filing Date 09/12/03

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	PLUNG DATE IF APPROPRIATE
	614119	10/31/00	Lee et al.	360	324.1	12/5/97
	6567246	5/20/03	Sakakima et al.	360	324.11	3/1/00
	6414825	7/2/02	Inoue et al.	360	320	9/30/99
	6221508	4/24/01	Kambe et al.	428	617	12/8/98

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.